

## China's Cybersecurity landscape from the perspective of CNCERT/CC





CNCERT/CC

The cybersecurity landscape of mainland China

Introduction about CNCERT and responses to cybersecurity threats

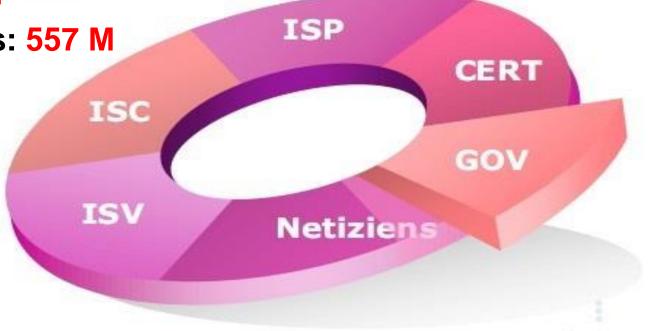
#### Statistics (until 2014):

Domain name: 21M

Website: 34 M

netizens: 649 M

mobile netizens: 557 M



#### **Cybersecurity landscape**



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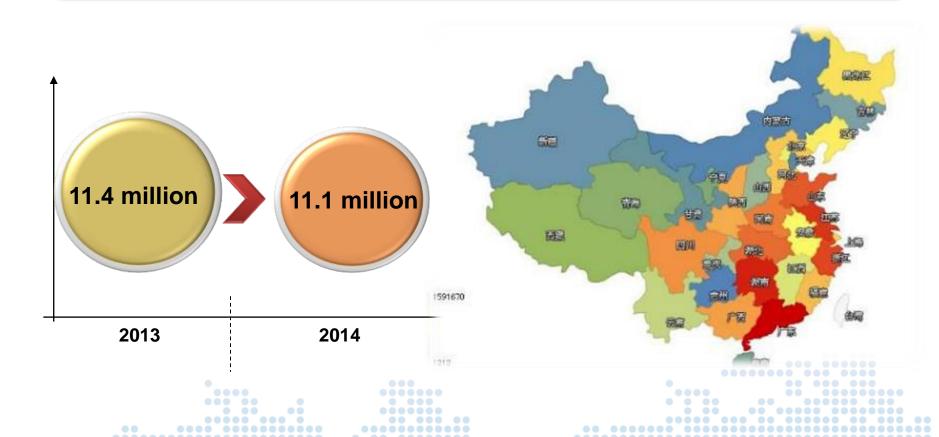


#### **Trojans and botnets**



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In 2014, a total of over 11.1 million computers were infected with trojans or botnets in mainland China, about 2.3% less than 2013.

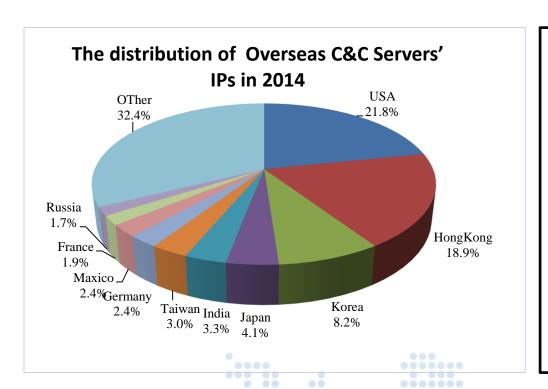


### Massive infected computers were controlled by overseas C&C servers



CNCERT/C

More than 10.8 million infected hosts were controlled by about 42 thousands trojan or botnet C&C servers located overseas.



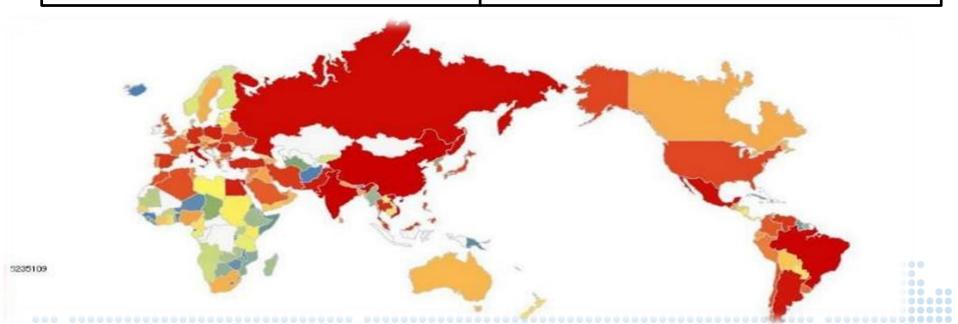
- ➤ The top 3 locations of the C&C server's IPs were the USA (21.8%), Hongkong(18.9%) and Korea(8.2%).
- The C&C servers in the USA controlled more than 3.9 million infected hosts in mainland China, which recorded the largest amount. It was followed by Portugal and Finland.

#### Website security



CNCERT/C

- Websites defaced :37 thousand1.8 thousand government websites
- Websites planted with backdoors:40 thousand1.5thousand governmentwebsites
- ➤ Over 19 thousand overseas IPs conducted remote control on over 33 thousand websites in mainland China.
- ➤In terms of their IP locations: USA (24.8%) Korea(6.7%) Hongkong(6.5%)



### Large amounts of phishing pages were located overseas



CNCERT/CC

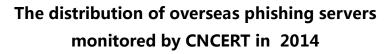
99 thousand phishing webpages targeted websites in mainland China.

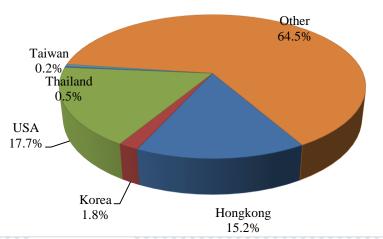
- About 7 thousand IPs were involved.
- 89.4% IPs of these phishing servers were located overseas.
- 1083 IPs from USA loaded more than 10 thousand phishing pages.

CNCERT received about 18 thousand reports of phishing, 31.8% of the total reports.









#### Over 300 third party android app stores.















































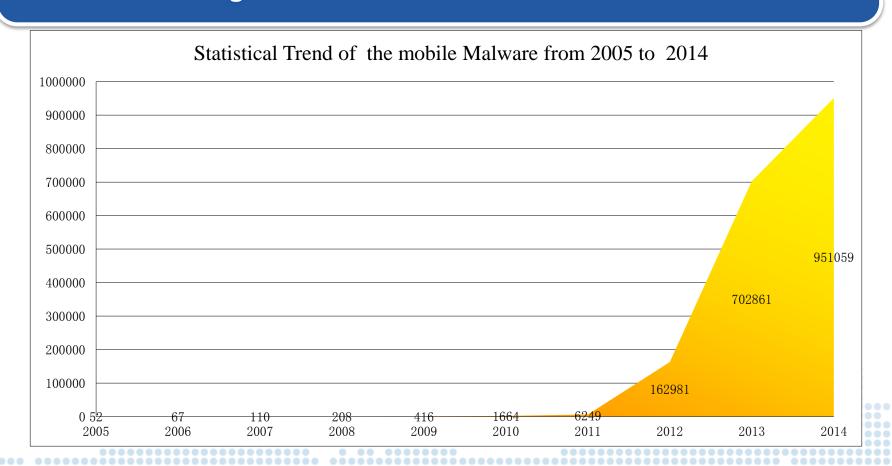


#### Mobile malware rose rapidly



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In 2014, CNCERT captured more than 951 thousand mobile malwares. We found in the last several years, the mobile malware becomes time of growth.

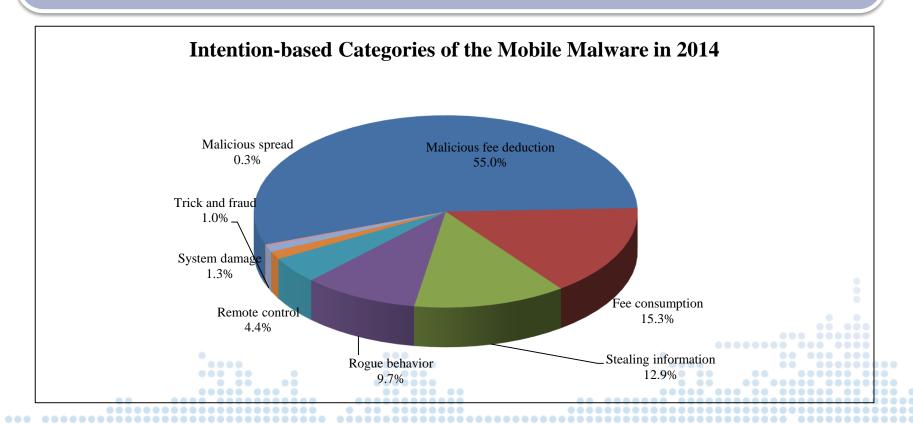


### More and more hacker make mobile malware for pursuing interest.



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In term of intension of the mobile malware: Malicious fee deducting (55.0%) fee consumption (15.3%) stealing information (12.9%)



#### **Vulnerabilities**



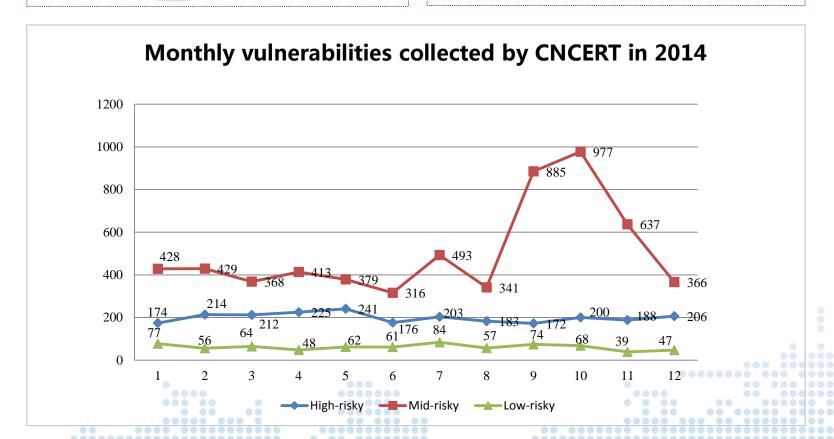
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Vulnerabilities In total

9163 16.7%

High-risky

2394 8.1%



### The process of fixing vulnerabilities is too slow to avoid risk



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Network administrators are too busy to handle a lot of new vulnerabilities.

It should be very careful to operate on the online systems.

It takes a long time to fix vulnerabilities.

Both accumulated and newly occurred vulnerabilities cause serious threat to information systems.



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2002.9

- Non-governmental and non-profit cybersecurity technical center under MIIT (Ministry of Industry and Information Technology of the People's Republic of China)
- Single point of contact in mainland China for national CERTs
- Key coordination team for China's cybersecurity emergency response community

# Received (2014): 800 + information report partners domestic

Released(2014): 264 reports

**52** weekly reports in English

1 annual report in English



Landscape presentation

Annual meeting

Content of report include: cybersecurity threats notification, incidents analysis, national landscape analysis, technical assistance, etc.

#### **Emergency Response**



CNCERT/CC

Accepted 56180 incidents complaint

**Handled 56072 incidents** 

Taken down 744 large scale
Botnets
protect 982,000 infected
hosts

removed 8644 malicious apps

Increase the governance intensity of the Internet environment and restrain malicious codes

#### **CNCERT International Cooperation Partnership**

CNCERT has established partnership with

144 organizationsin63 countries orregions





#### Many Thanks!

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